(19) World Intellectual Property Organization International Bureau

(43) International Publication Date

10 February 2005 (10.02.2005)



PCT

(10) International Publication Number WO 2005/012566 A2

(51) International Patent Classification7:

C12Q 1/68

(21) International Application Number:

PCT/GB2004/003236

(22) International Filing Date:

26 July 2004 (26.07.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 0317592.4

26 July 2003 (26.07.2003)

(71) Applicant (for all designated States except MG, US): AS-TRAZENECA AB [SE/SE]; S-151 85 Sodertalje (SE).

- (71) Applicant (for MG only): ASTRAZENECA UK LIM-ITED [GB/GB]; 15 Stanhope Gate, London, Greater London W1K 1LN (GB).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): AMBROSE, Helen, Jean [GB/GB]; AstraZeneca R & D Alderley, Alderley Park, Macclesfield, Cheshire SK10 4TG (GB). MARCH, Ruth [GB/GB]; AstraZeneca R & D Alderley, Alderley Park, Macclesfield, Cheshire SK10 4TG (GB).

- (74) Agent: ASTRAZENECA; Global Intellectual Property, S-151 85 Sodertalje (SE).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHOD

(57) Abstract: This invention relates to use of polymorphisms in human OATP-C in statin therapy because they are associated with an effect on statin pharmacokinetics (PK) in humans, especially rosuvastatin pharmacokinetics. The invention also relates to the use of OATP-C polymorphisms in predicting the efficacy and safety of statins, whose uptake in to the liver is mediated by OATP-C, especially rosuvastatin.



(19) World Intellectual Property Organization

International Bureau



(43) International Publication Date 10 February 2005 (10.02.2005)

PCT

(10) International Publication Number WO 2005/012566 A3

(51) International Patent Classification7:

C12Q 1/68

(21) International Application Number:

PCT/GB2004/003236

(22) International Filing Date: 26 July 2004 (26.07.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

0317592.4 26 July 2003 (26.07.2003)

- (71) Applicant (for all designated States except MG, US): AS-TRAZENECA AB [SE/SE]; S-151 85 Sodertalje (SE).
- (71) Applicant (for MG only): ASTRAZENECA UK LIM-ITED [GB/GB]; 15 Stanhope Gate, London, Greater London W1K 1LN (GB).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): AMBROSE, Helen, Jean [GB/GB]; AstraZeneca R & D Alderley, Alderley Park, Macclesfield, Cheshire SK10 4TG (GB). MARCH, Ruth [GB/GB]; AstraZeneca R & D Alderley, Alderley Park, Macclesfield, Cheshire SK10 4TG (GB).
- (74) Agent: ASTRAZENECA; Global Intellectual Property, S-151 85 Sodertalje (SE).

- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- (88) Date of publication of the international search report: 16 June 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: USE OF POLYMORPHISIS IN HUMAN OATP-C ASSOCIATED WITH AN EFFECT ON STATIN PHARMACOKI-NETICS IN HUMANS IN STATIN THERAPY

(57) Abstract: This invention relates to use of polymorphisms in human OATP-C in statin therapy because they are associated with an effect on statin pharmacokinetics (PK) in humans, especially rosuvastatin pharmacokinetics. The invention also relates to the use of OATP-C polymorphisms in predicting the efficacy and safety of statins, whose uptake in to the liver is mediated by OATP-C, especially rosuvastatin.

